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1. Document ID: US 20030093284 A1

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File: PGPB

May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030093284
 PGPUB-FILING-TYPE: new
 DOCUMENT-IDENTIFIER: US 20030093284 A1

TITLE: Conflict detection and resolution in association with data allocation

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kootale, Krishnadas C.	Mount Arlington	NJ	US	

US-CL-CURRENT: 705/1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Drawn De
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2. Document ID: US 6570567 B1

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File: DWPI

May 27, 2003

DERWENT-ACC-NO: 2003-540014
 DERWENT-WEEK: 200351
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TITLE: Pedigree chart display method for use in genealogy field, involves distinguishing visual representation predetermined relationships between individuals associated with pedigree chart

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Drawn De
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1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on C**Full text available: [pdf\(4.21 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on procedures to obtain a better understanding of the execution of the application. The visualization tool we use was developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the desired overview of the application. In our experience, such tools display repeated occurrences of

2 [Special issue on natural language generation: Collaborative response generation in planning](#)

Jennifer Chu-Carroll, Sandra Carberry

September 1998 **Computational Linguistics**, Volume 24 Issue 3Full text available: [pdf\(3.45 MB\)](#) [Publisher Site](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In collaborative planning dialogues, the agents have different beliefs about the domain and about what conflicts arise during the planning process. In this paper, we present a plan-based model for collaborative planning, based on a recursive *Propose-Evaluate-Modify* framework for modeling collaboration, identifying strategies for content selection when 1) the system initiates *information-sharing* to gather information about the domain and 2) the system proposes a plan to the user.

3 [A logical framework for reasoning about access control models](#)

Elisa Bertino, Barbara Catania, Elena Ferrari, Paolo Perlasca

February 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6 Issue 1Full text available: [pdf\(450.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The increased awareness of the importance of data protection has made access control a relevant research area in information systems. Moreover, emerging applications and data models call for flexible and expressive access control mechanisms. This has led to an extensive research activity that has resulted in the definition of a variety of access control models, each greatly with respect to the access control policies they support. Thus, the need arises for developing a logical framework for reasoning about access control models.

Keywords: Access control framework, access control models analysis, logic programming

4 [Concurrency control in advanced database applications](#)

Naser S. Barghouti, Gail E. Kaiser

September 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 3

Full text available: [pdf\(4.69 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index term](#)

Keywords: advanced database applications, concurrency control, cooperative transactions, design transaction models, long transactions, object-oriented databases, relaxing serializability

5 Data model issues for object-oriented applications

Jay Banerjee, Hong-Tai Chou, Jorge F. Garza, Won Kim, Darrell Woelk, Nat Ballou, Hyoung-Joo Kim
January 1987 **ACM Transactions on Information Systems (TOIS)**, Volume 5 Issue 1

Full text available: [pdf\(1.99 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

Presented in this paper is the data model for ORION, a prototype database system that adds persistence created and manipulated in object-oriented applications. The ORION data model consolidates and concepts found in many object-oriented systems, such as objects, classes, class lattice, methods, are reviewed and three major enhancements to the conventional object-oriented data model, namely

6 Gross motion planning—a survey

Yong K. Hwang, Narendra Ahuja
September 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 3

Full text available: [pdf\(6.40 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

Motion planning is one of the most important areas of robotics research. The complexity of the motion planning problem has hindered the development of practical algorithms. This paper surveys the work on gross-motion planning for point robots, rigid robots, and manipulators in stationary, time-varying, constrained, environments. The general issues in motion planning are explained. Recent approaches and their results are described, and a ...

Keywords: collision detection, computational geometry, implementation, motion planning, obstacles, spatial representation

7 Tools and transformations—rigorous and otherwise—for practical database design

Arnon Rosenthal, David Reiner
June 1994 **ACM Transactions on Database Systems (TODS)**, Volume 19 Issue 2

Full text available: [pdf\(3.19 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

We describe the tools and theory of a comprehensive system for database design, and show how multiple conceptual and logical design processes. The Database Design and Evaluation Workbench is a rigorous, information-content-preserving approach to schema transformation, but combines it with user interactions. The main contribution lies in illustrating how theory was adapted to a practical environment: consistency ...

Keywords: applications of database theory, computer-aided software engineering, data model transformation, database equivalence, design heuristics, entity-relationship model, heuristics, normalization, view

8 Controlling access in multiuser interfaces

Prasun Dewan, Honghai Shen
March 1998 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 5 Issue 1

Full text available: [pdf\(182.07 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

Traditionally, access control has been studied in the areas of operating systems and database management systems. In the advent of multiuser interfaces, there is a need to provide access control in the user interface. We

framework for supporting access control in multiuser interfaces. It is based on the classical notion generalized editing-based model of user-application interaction, and a flexible model of user-user

Keywords: access control, collaboration, computer-supported cooperative work, groupware, private user interface management systems

9 Formal aspects of concurrency control in long-duration transaction systems using the NT/PV

Henry F. Korth, Greg Speegle

September 1994 **ACM Transactions on Database Systems (TODS)**, Volume 19 Issue 3

Full text available:  [pdf\(3.23 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In the typical database system, an execution is correct if it is equivalent to some serial execution. serializability, is unacceptable for new database applications which require long-duration transaction model which allows correctness criteria more suitable for these applications. This model to the standard model: nested transactions, explicit predicates, and multiple versions. These features

Keywords: concurrency control protocol, semantic information, transaction processing

10 Semantics and implementation of schema evolution in object-oriented databases

Jay Banerjee, Won Kim, Hyoung-Joo Kim, Henry F. Korth

December 1987 **ACM SIGMOD Record, Proceedings of the 1987 ACM SIGMOD international conference on data**, Volume 16 Issue 3

Full text available:  [pdf\(1.54 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Object-oriented programming is well-suited to such data-intensive application domains as CAD/CAM (information systems) with multimedia documents. At MCC we have built a prototype object-oriented system ORION. It adds persistence and sharability to objects created and manipulated in applications implemented in a programming environment. One of the important requirements of these applications is schema evolution ...

11 PCCTS reference manual: version 1.00

T. J. Parr, H. G. Dietz, W. E. Cohen

February 1992 **ACM SIGPLAN Notices**, Volume 27 Issue 2

Full text available:  [pdf\(3.77 MB\)](#)

Additional Information: [full citation](#), [citations](#), [index terms](#)

12 Cooperative transaction hierarchies: transaction support for design applications

Marian H. Nodine, Stanley B. Zdonik

July 1992 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 6 Issue 3

Full text available:  [pdf\(2.20 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Traditional atomic and nested transactions are not always well-suited to cooperative applications. Cooperative applications place requirements on the database that may conflict with the serializability of transactions to be long, possibly nested, and able to interact with each other in a structured way. We propose a framework, called a *cooperative transaction hierarchy*, that allows us to relax the requirement for

Keywords: cooperation, deadlock detection, design transactions, non-serializability, transaction isolation, synchronization, version management

13 Requirements interaction management

William N. Robinson, Suzanne D. Pawlowski, Vecheslav Volkov

June 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 2

Full text available: [!\[\]\(d263118e0bfd47dc6bc704167d936b83_img.jpg\) pdf\(1.24 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index term](#)

Requirements interaction management (RIM) is the set of activities directed toward the discovery of critical relationships among sets of requirements, which has become a critical area of requirement engineering. This paper presents an issues-based framework for RIM, and applies the framework in a review of RIM state-of-the-art. Finally, it presents some open issues and research directions.

Keywords: KAOS, KATE, Oz, Requirements engineering, Telos, WinWin, analysis and design, configuration, dependency analysis, distributed intentionality, interaction analysis, software cost reduction, system specification, viewpoints

14 Concurrency control issues in nested transactions

Theo Härdter, Kurt Rothermel

January 1993 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 7, Number 1

Full text available: [!\[\]\(e8fb589d58dad1692debababa5e928b6_img.jpg\) pdf\(1.90 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The concept of nested transactions offers more decomposable execution units and finer-grained control over recovery than "flat" transactions. Furthermore, it supports the decomposition of a "unit of work" into appropriate distribution in a computer system as a prerequisite of intratransaction parallelism. However, potential, suitable granules of concurrency control as well as access modes for shared data are not yet clearly defined.

Keywords: concurrency control, locking, nested transactions, object hierarchies

15 Active database systems

Norman W. Paton, Oscar Díaz

March 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 1

Full text available: [!\[\]\(2b17f17ebbacc911bb0ff784ab641779_img.jpg\) pdf\(2.68 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

Active database systems support mechanisms that enable them to respond automatically to events inside or outside the database system itself. Considerable effort has been directed towards improving systems in recent years, and many different proposals have been made and applications suggested. However, this has not yielded a single agreed-upon standard approach to the integration of active functionality with traditional database systems.

Keywords: active databases, events, object-oriented databases, relational databases

16 Parallel logic programming systems

Jacques Chassin de Kercommeaux, Philippe Codognet

September 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 3

Full text available: [!\[\]\(fd47dc3c71882b0b4a62715dd757d994_img.jpg\) pdf\(3.51 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

Parallelizing logic programming has attracted much interest in the research community, because of the many parallelisms of logic programs. One research stream aims at transparent exploitation of parallelism in languages such as Prolog, while the family of concurrent logic languages develops language constructs to express the concurrency—that is, the communication and synchronization between parallel processes.

Keywords: AND-parallelism, OR-parallelism, Prolog, Warren Abstract Machine, binding arrays, constraint programming, constraints, guard, hash windows, load balancing, massive parallelism, memory management, implementation techniques, nondeterminism, scheduling parallel tasks, static analysis

17 Managing multiple and distributed ontologies on the Semantic Web

A. Maedche, B. Motik, L. Stojanovic

November 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Vol.

Full text available:  [pdf\(375.18 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

In traditional software systems, significant attention is devoted to keeping modules well separated: functionality, thus ensuring that changes in the system are localized to a handful of modules. Reaching that goal. Ontology-based systems on the Semantic Web are just a special class of software principles apply. In this article, we present an integrated framework for managing multiple and di

Keywords: Multiple and distributed ontologies, Ontology evolution

18 Guidance for the use of the Ada programming language in high integrity systems

B. A. Wichmann

July 1998 **ACM SIGAda Ada Letters**, Volume XVIII Issue 4

Full text available:  [pdf\(2.93 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper is the current result of a study by the ISO HRG Rapporteur group which is being circulated. Those who have contributed to this, but those who have either attended two recent meetings of group or have comments are: Praful V Bhansali (Boeing, USA), Alan Burns (University of York, UK), Bernard Caron (CNET, France), Dan Craigen (ORA, Canada), Nick Johnson (MoD, UK), Stephen Michell (Canada), Gilles Motet (DG Roma ...

19 Abstraction-based intrusion detection in distributed environments

Peng Ning, Sushil Jajodia, Xiaoyang Sean Wang

November 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue 4

Full text available:  [pdf\(590.61 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Abstraction is an important issue in intrusion detection, since it not only hides the difference between also allows generic intrusion-detection models. However, abstraction is an error-prone process and intrusion-detection systems (IDSs). This article presents a hierarchical model to support attack signatures in distributed intrusion detection. The model involves three concepts: *system view*, *signature ...*

Keywords: Cooperative information systems, heterogeneous systems, intrusion detection, misus

20 A concurrency control framework for collaborative systems

Jonathan Munson, Prasun Dewan

November 1996 **Proceedings of the 1996 ACM conference on Computer supported cooperative work**

Full text available:  [pdf\(1.28 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: collaborative systems, concurrency control, consistency criteria, coupling, merging, transactional

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